



PTO/SB/08a (08-03)

Approved for use through 07/31/2008. OMB 0651-0031

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449A/PTO

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

Sheet 1 of 2

Complete if Known

Application Number	10/087,437
Filing Date	March 2, 2002
First Named Inventor	Kimmo Laiho
Art Unit	2684
Examiner Name	Alan T. Gantt
Attorney Docket Number	004770.00033

U.S. PATENT DOCUMENTS

Examiner Initials *	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number - Kind Code ² (if known)			
TR		US- 2004/0242163 A1	12-02-2004	Karr et al.	
		US- 2004/0102213 A1	05-27-2004	Karr et al.	
		US- 2004/0102214 A1	05-27-2004	Karr et al.	
		US- 2004/0102215 A1	05-27-2004	Karr et al.	
		US- 2004/0097194 A1	05-20-2004	Karr et al.	

FOREIGN PATENT DOCUMENTS

Examiner Initials *	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁴
		Country Code ³ - Number ⁴ - Kind Code ⁵ (if known)				

NON PATENT LITERATURE DOCUMENTS

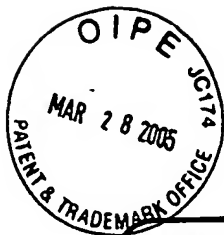
Examiner Initials *	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
TR		FALK, Aaron David, "A System design For A Hybrid Network Data Communications Terminal Using Asymmetric TCP/IP To Support Internet Applications," Master of Science Thesis, 1994, 78 pages	
TR		FT Interactive Data, printed from http://www.interactivedata.com/images/IDC_timeline.swf , on 3/28/05, 4 pages	
TR		ANKENY, Jason, "Safe At Any Speed", printed from http://wirelessreview.com/ar/wireless_safe_speed/ , on 3 pages, Wireless, June 1, 2004	
TR		"Mobility and the Implications of Wireless Technologies," printed from http://www.wss.princeton.edu/cgi-bin/byteserv.pl/~ota/disk1/1995/9547/954705.PDF , chapter 2, pages 47-64, September, 1995	

Examiner Signature		Date Considered	2/1/06
-----------------------	--	--------------------	--------

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. ¹ Applicant's unique citation designation number (optional). ² See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.



PTO/SB/08a (08-03)

Approved for use through 07/31/2008. OMB 0851-0031

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449A/PTO

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

Sheet 2 of 2

Complete If Known

Application Number	10/087,437
Filing Date	March 2, 2002
First Named Inventor	Kimmo Laiho
Art Unit	2684
Examiner Name	Alan T. Gantt
Attorney Docket Number	004770.00033

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials *	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
TR		Welcome to eSignal!, printed from http://www.esignal.com/default.asp , on March 22, 2005, 2 pages	
		Welcome to the QuoTrek Product Site!, printed from http://www.quotrek.com/ on March 22, 2005, 2 pages	
		VAIDYA, Nitin H., et al., "Scheduling data broadcast in asymmetric communication environments," Wireless Networks, Volume 5, Issue 3, May 1999, pages 171-182	
		"New Flexible Network-based RTK Service in Japan," printed from http://www.geomatics.ucalgary.ca/~lachapel/00GPSIP.pdf , 8 pages, Approximate Publication: after 1999	
		"Semiconductor Delivers Complete Solution for Microsoft's New Smart Personal Objects Technology Initiative," printed from http://www.national.com/news/item/0,1735,829,00.htm on March 28, 2005, 30 pages	
		American Meteorological Society, "Unidata's Internet Data Distribution (IDD) System: Two Years of Data Delivery," printed from http://www.unidata.ucar.edu/projects/idd/ips97_mitch.html , 6 pages, 1997	
		Unidata - IDD Principles, "Principles Underlying Internet Data Distribution," printed from http://www.unidata.ucar.edu/projects/idd/plans/principles.html , 2 pages, June 29, 1994	

Examiner
SignatureDate
Considered

2/1/06

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. ¹ Applicant's unique citation designation number (optional). ² See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.



PTO/SB/08a (08-03)

Approved for use through 07/31/2006. OMB 0851-0031

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449A/PTO

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

Sheet 1 of 1

Complete if Known

Application Number	10/087,437
Filing Date	March 2, 2002
First Named Inventor	Kimmo Laiho
Art Unit	2684
Examiner Name	Alan T. Gantt
Attorney Docket Number	004770.00033

U.S. PATENT DOCUMENTS

Examiner Initials *	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number - Kind Code ² (if known)			
		US-			
		US-			

FOREIGN PATENT DOCUMENTS

Examiner Initials *	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶
		Country Code ³ - Number ⁴ - Kind Code ⁵ (if known)				
TR		DE 199 10 023 A1	09-14-2000	Rohde & Schwarz GmbH & Co KG		

NON PATENT LITERATURE DOCUMENTS

Examiner Initials *	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
TR		KELLERER, W., "A Versatile Network Independent Server Architecture for Multimedia Information and Communication Services," In Proceedings of SmartNet2000, Sixth IFIP International Conference on Intelligence in Networks, Vienna, Austria, September 18-22, 2000, pages 1-20 http://www.lkn.ei.tum.de/~wolfgang/wk/publ/kellerer_smartnet00a.pdf	
TR		KELLERER, ET AL., W., "IP based enhanced Data Casting Services over Radio Broadcast Networks," In Proceedings of ECUMN 2000, IEEE European Conference on Universal Multiservice Networks, Colmar, France, October 2-4 2000, 9 pages http://www.lkn.ei.tum.de/~wolfgang/wk/publ/kellerer_ecumn2000.pdf	
TR		IMIELINSKI, Tomasz and BADRINATH, B.R., "Mobile wireless computing: challenges in data management, Communications of the ACM," Volume 37, Issue 10 (October 1994), Pages: 18 - 28, Year of Publication: 1994, ISSN:0001-0782	
TR		KLINGENBERG, Wolfgang and NEUTEL, Andreas, "MEMO: A Hybrid DAB/GSM Communication System for Mobile Interactive Multimedia Services," Proc. of ECMAS ⁷ , Berlin, Germany, 1998, Lecture Notes in Computer Science Vol. 1425, Springer-Verlag Berlin Heidelberg New York, pages 493-503 http://impact-internal.lboro.ac.uk/memo/bosch/ecmast98.pdf	

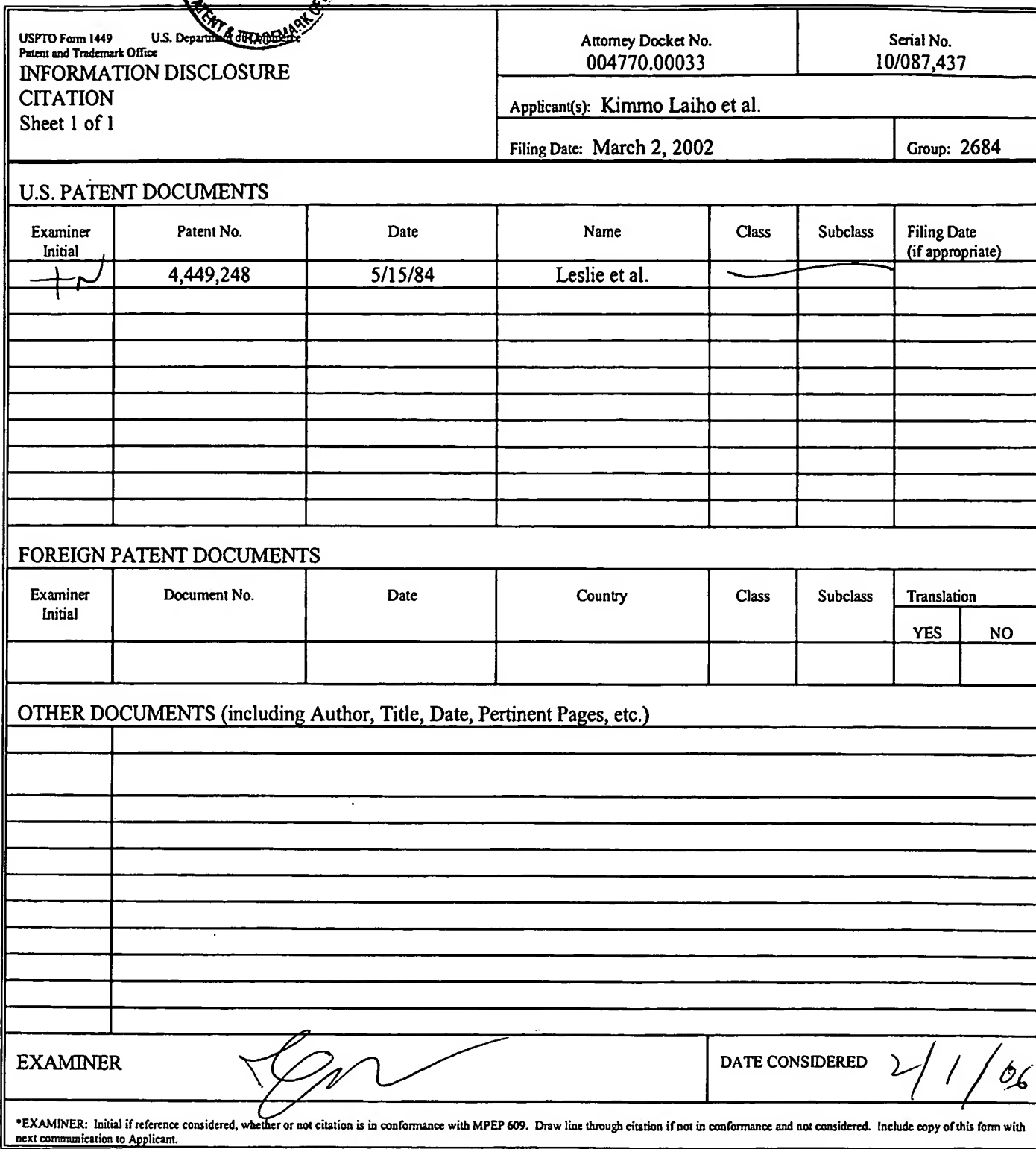
Examiner
SignatureDate
Considered

2 / 1 / 06

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. ¹ Applicant's unique citation designation number (optional). ² See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

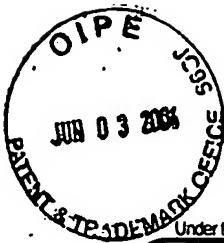
This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.





*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.



PTO/SB/08a (05-03)
Approved for use through 04/30/2003. OMB 0651-0031
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449A/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)		Complete if Known			
		Application Number	10/087,437		
		Filing Date	March 2, 2002		
		First Named Inventor	Kimmo Laiho et al.		
		Art Unit	2684		
		Examiner Name	TBD		
Sheet	1	of	1	Attorney Docket Number	004770.00033

U.S. PATENT DOCUMENTS					
Examiner Initials *	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number - Kind Code ² (if known)			
TN		US-5,936,965	8/10/99	Doshi et al.	RECEIVED JUN 08 2004 Technology Center 2600
		US- 5,764,700	6/09/98	Makinen	
		US- 5,359,607	10/25/94	Nguyen et al.	
		US- 4,601,586	7/22/86	Bahr et al.	
		US-			
		US-			
		US-			

FOREIGN PATENT DOCUMENTS						
Examiner Initials *	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶
		Country Code ³ - Number ⁴ - Kind Code ⁵ (if known)				

OTHER PRIOR ART -- NON PATENT LITERATURE DOCUMENTS			
Examiner Initials *	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
TN		Written Opinion from PCT/IB03/00694 dated May 3, 2004	

Examiner Signature		Date Considered	2/1/06
-----------------------	--	--------------------	--------

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. 1 Applicant's unique citation designation number (optional). 2 See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. 3 Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). 4 For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. 5 Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. 6 Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450.



PTO/SB/08a (05-03)
Approved for use through 04/30/2003. OMB 0651-0031
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449A/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)		Complete if Known			
		Application Number	10/087,437		
		Filing Date	March 2, 2002		
		First Named Inventor	Kimmo Laiho et al.		
		Art Unit	2684		
		Examiner Name	TBD		
Sheet	1	of	2	Attorney Docket Number	004770.00033

RECEIVED
MAR 17 2003
Technology Center 2608

U.S. PATENT DOCUMENTS					
Examiner Initials *	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number - Kind Code ² (if known)			
		US-			
		US-			
		US-			
		US-			
		US-			
		US-			
		US-			
		US-			
		US-			
		US-			
		US-			
		US-			
		US-			

FOREIGN PATENT DOCUMENTS						
Examiner Initials *	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁴
		Country Code ³ - Number ⁴ - Kind Code ⁵ (if known)				
TA		DE 101 64 665 A1	08-01-2002	Vtech Communications Ltd.		
TH		EP 0 577 322 A1	01-05-1994	Nokia Mobile Phones Ltd.		

Examiner Signature		Date Considered	2 / 1 / 06
-----------------------	--	--------------------	------------

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. 1 Applicant's unique citation designation number (optional). 2 See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. 3 Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). 4 For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. 5 Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. 6 Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450.



PTO/SB/08b(05-03)
Approved for use through 04/30/2003. OMB 0651-0031
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449A/PTO		Complete if Known	
		Application Number	10/087,437
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)		Filing Date	March 2, 2002
		First Named Inventor	Kimmo Laiho et al.
		Group Art Unit	2684
		Examiner Name	TBD
		Attorney Docket Number	004770.00033
Sheet	2	of	2

OTHER PRIOR ART -- NON PATENT LITERATURE DOCUMENTS			
Examiner Initials *	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
		Search Report	
TR		NEN-FU HUANG ET AL, "Architectures and Handoff Schemes for CATV-Based Personal Communications Network," Infocom '98, Seventeenth Annual Joint Conference of the IEEE Computer and Communications Societies. Proceedings, IEEE San Francisco, CA, USA, March 29 to April 2, 1998; IEEE New York, NY, USA, March 29, 1998, pages 748-755	

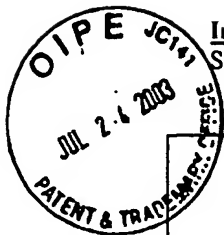
Examiner Signature		Date Considered	2/1/06
-----------------------	--	--------------------	--------

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

1 Applicant's unique citation designation number (optional). 2 Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 120 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

**Information Disclosure Statement**

Serial No. 10/087,437

Sheet 1 of 1

PTO-1449 (Modified) U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE INFORMATION DISCLOSURE STATEMENT BY APPLICANT	ATTY. DOCKET NO. 004770.00033	SERIAL NUMBER 10/087,437
	APPLICANT Kimmo Laiho	
	FILING DATE March 2, 2002	GROUP ART UNIT 2684

U.S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE
TR	2002/0025777 A1	2/28/02	Kawamata et al.			
	6,167,248	12/26/00	Hamalainen et al.			
	6,088,412	7/11/00	Ott			
	6,047,181	4/4/00	Suonvieri			
	5,870,675	2/9/99	Tuutijärvi et al.			
	5,513,246	4/30/96	Jonsson et al.			

RECEIVED

JUL 25 2003

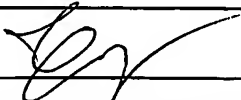
Technology Center 2600

FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB CLASS	TRANSLATION YES/NO

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

	Search Report

EXAMINER		DATE CONSIDERED	2/1/06
EXAMINER: Initial citation if reference was considered. Draw line through citation if not in conformance to MPEP 609 and not considered. Include copy of this form with next communication to applicant.			

IDS w/1449 form filed: July 24, 2003

Information Disclosure Statement
Serial No. 10/087,437



Sheet 1 of 1

PTO-1449 (Modified) U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE INFORMATION DISCLOSURE STATEMENT BY APPLICANT	ATTY. DOCKET NO. 004770.00033	SERIAL NUMBER 10/087,437
	APPLICANT Kimmo Laiho	
	FILING DATE March 2, 2002	GROUP ART UNIT 2684

U.S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE
TR	2003/0067943 A1	4/10/03	Arsenault et al.			
	6,490,727	12/3/02	Nazarathy et al.			
	6,356,555	3/12/02	Rakib et al.			
	6,335,766	1/1/02	Twitchell et al.			
	6,285,686	9/4/01	Sharma			

FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB CLASS	TRANSLATION YES/NO

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

Search Report	RECEIVED JUL 16 2003

EXAMINER 	DATE CONSIDERED 2/1/06	Technology Center 2600
EXAMINER: Initial citation if reference was considered. Draw line through citation if not in conformance to MPEP 609 and not considered. Include copy of this form with next communication to applicant.		

IDS w/1449 form filed: July 15, 2003



PTO/SB/08A (10-01)

Approved for use through 10/31/2002. OMB 0651-0031

U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)				Complete If Known	
				Application Number	10/087,437
				Filing Date	March 2, 2002
				First Named Inventor	Kimmo Laiho et al.
				Group Art Unit	2684
				Examiner Name	TBD
Sheet	1	of	2	Attorney Docket Number	004770.00033

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number - Kind Code ² (if known)			
TD		US-5,371,734	12-06-1994	Fischer	
		US-5,710,756	01-20-1998	Pasternak	
		US- 5,886,995	03-23-1999	Arsenault	
		US- 6,175,557	01-16-2001	Diachina et al.	
		US- 6,226,278	05-01-2001	Bursztenj	
		US- 6,262,982	07-17-2001	Donahue	
		US- 6,282,990	07-17-2001	Ejiri	
		US- 6,282,209	08-28-2001	Kataoka	
		US- 6,295,450	09-25-2001	Lyer	
		US- 6,339,713	01-15-2002	Hansson et al.	
		US- 6,477,382	11-05-2002	Mansfield et al.	
		US-			
		US-			
		US-			
		US-			
		US-			
		US-			
		US-			

RECEIVED
MAY 01 2003
Technology Center 2600

FOREIGN PATENT DOCUMENTS						
Examiner Initials*	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶
		Country Code ³ - Number ⁴ - Kind Code ⁵ (if known)				
TD		WO 02/01879	01-03-2002	Aaltonen et al.		
		WO 02/03728	01-10-2002	Salo et al.		
		WO 02/03729	01-10-2002	Salo et al.		
		WO 01/31963	05-03-2001	Hasan et al.		
		WO 01/72076	09-27-2001	Xu et al.		

Examiner Signature		Date Considered	2/1/06
-----------------------	--	--------------------	--------

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Applicant's unique citation designation number (optional). ² See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04.


³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.



Electronic Information Disclosure Statement

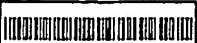


SYSTEM AND METHOD FOR BROADBAND DIGITAL BROADCASTING

Application: 
10/087437
Confirmation: 3461
Applicant(s): Kimmo Laiho
Docket Number: 004770.00033
Group Art Unit:
Examiner:
search string: (5745860 or 4449248 or 5539925 or 20020010763).pn.

RECEIVED
OCT 04 2002
Technology Center 2600

US Patent Documents


Note: Applicant is not required to submit a paper copy of cited US Patent Documents

init	Citation No.	Patent Number	Date	Bar Code	Patentee	Class	Subclass
TM	P01	5745860	1998-04-28		Kallin		
TM	P02	4449248	1984-05-15		Leslie et al.		
TM	P03	5539925	1996-07-23		Yli-Kotila et al.		

Published Applications

Note: Applicant is not required to submit a paper copy of cited US Patent Documents

init	Citation No.	Patent Number	Date	Bar Code	Patentee	Class	Subclass
TM							


	U01	20020010763	2002-01-24		Juha Salo et al.
-----------------------------------------------------------------------------------	-----	-------------	------------	------------------------------------------------------------------------------------	------------------

Remarks

(Remarks are not for responding to an office action.)

Pursuant to 37 C.F.R. 1.56 and in compliance with 37 C.F.R. 1.97, Applicant submits the above information for consideration by the Examiner. Applicant does not waive any right to take appropriate action to establish patentability over the listed documents should they be applied as a reference against the claims of the present application. Consideration of the cited information and making the same of record in the prosecution of the above noted application are respectfully requested. Should the Patent and Trademark Office determine that a fee is required, please charge our Deposit Account No. 19-0733.

Signature

Examiner Name	Date
	2/1/06



USPTO Form 1449 U.S. Department of Commerce
Patent and Trademark Office

INFORMATION DISCLOSURE

CITATION

Sheet 1 of 1

Attorney Docket No.
004770.00033

Serial No.
10/087,437

Applicant(s): Kimmo Laiho et al.

Filing Date: March 2, 2002

Group: 2643

U.S. PATENT DOCUMENTS

Examiner Initial	Patent No.	Date	Name	Class	Subclass	Filing Date (if appropriate)

RECEIVED

OCT 03 2002

Technology Center 2100

FOREIGN PATENT DOCUMENTS

Examiner Initial	Document No.	Date	Country	Class	Subclass	Translation	
						YES	NO

OTHER DOCUMENTS (including Author, Title, Date, Pertinent Pages, etc.)

TR	Apostolis K. Salkintzis et al., "An In-Band Power-Saving Protocol for Mobile Data Networks", IEEE Transactions On Communications, Vol. 46, No. 9, September 1998, pages 1194-1205
TN	Apostolis K. Salkintzis et al., "Performance Analysis of a Downlink MAC Protocol with Power-Saving Support", IEEE Transactions On Vehicular Technology, Vol. 49, No. 3, May 2000, pages 1029-1040

EXAMINER

DATE CONSIDERED

2/1/06

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

FORM PTO-1449 (Rev. 2-32)	U.S. Department of Commerce Patent and Trademark Office	Atty. Docket No. 004770.00033	Serial No. 10/087,437
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use several sheets if necessary)		RECEIVED MAY 14 2002 2643 Technology Center 2600	
		Applicant: Laiho et al	Filing Date: March 2, 2002

U.S. PATENT DOCUMENTS

Examiner Initial	Document Number	MM/DD/YY Date	Name	Class	Subclass	Filing Date if Appropriate
TR	5,307,376	04/26/1994	Castelain et al			
TR	5,657,313	08/12/1997	Takahashi et al			
TR	5,732,068	03/24/1998	Takahashi et al			
TN	5,799,033	08/25/1998	Baggen			
TN	6,256,357	07/03/2001	Oshima			

FOREIGN PATENT DOCUMENTS

Document Number	Date	Country	Class	Subclass	Translation	
					Yes	No

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc).

EXAMINER 	DATE CONSIDERED 2 / 1 / 06
---------------------	--------------------------------------

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449A/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

Complete if Known

Application Number	10/087,437
Filing Date	03/02/2002
First Named Inventor	Kimmo Laiho
Group Art Unit	
Examiner Name	
Attorney Docket Number	004770 00033

U.S. PATENT DOCUMENTS

[illegible]

RECEIVED
APR 18 2002
Technology Center 2600

FOREIGN PATENT DOCUMENTS

[illegible]

**Examiner
Signature**

Date
Considered

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Unique citation designation number. ² See attached Kinds of U.S. Patent Documents. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, Patent and Trademark Office, Washington, DC 20231. **DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO:** Assistant Commissioner for Patents, Washington, DC 20231.

Under the Paperwork Reduction Act of 1995, no person shall be required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449B/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

Sheet 1 of 1

Complete if Known

Application Number	10/087,437
Filing Date	03/02/2002
First Named Inventor	Kimmo Laiho
Group Art Unit	
Examiner Name	
Attorney Docket Number	004770 00033

OTHER PRIOR ART -- NON PATENT LITERATURE DOCUMENTS

[illegible]

RECEIVED
APR 18 2002
Technology Center 2600

**Examiner
Signature**

Date
Considered

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 809. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Unique citation designation number. ² Applicant is to place a check mark here if English language Translation is attached.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, Patent and Trademark Office, Washington, DC 20231. **DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO:** Assistant Commissioner for Patents, Washington, DC 20231.